

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Massoud kayvanjah

GENERAL INFORMATION:

Name:	Kentucky State University
Address:	400 E. Main Street Frankfort, KY 40601
Date application received:	7/25/2008
SIC Code/SIC description:	8221, University
Source ID:	21-073-00001
Agency Interest:	1405
Activity:	APE20080002
Permit:	V-08-031

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input checked="" type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual	Potential (tpy)
PM/PM ₁₀	361/73.93	683.37/134.15
SO ₂	180.65	321.87
NO _x	88.15	246.39
CO	46.15	87.71
VOC	2.73	11.21
Single HAPs, HCl	6.54	11.46

SOURCE DESCRIPTION:

A source wide operating Title V (TV) application for Kentucky State University (KSU) was received on July 25, 2008. Additional information was submitted on August 6, 2008 and August 29, 2008. Currently, the source has an operating permit (O-79-444) for the two coal fired boilers (40 and 20 MMBtu/hr). An 18 MMBtu/hr natural gas indirect heat exchanger was constructed in 1989, and other fourteen small once ranging between 1.2 MMBtu/hr and 3.5 MMBtu/hr installed between 1983 and 2008. The insignificant units at the source include thirty five (35) small space heaters, twelve (12) water heaters, four (4) natural gas fired emergency generators, and six (6) diesel emergency generators.

The source is classified as a Title V, due to its having potential emissions of regulated air pollutants, nitrogen oxides (NO_x), sulfur dioxide (SO₂) and carbon monoxide (CO), greater than a major source threshold. This permit contains practically enforceable limit to preclude Section 112(j), of Clean Air Act (CAA). Emissions calculation is based on AP-42 emission factors and units operating hours of 8760 per year, except for the diesel generators whose potential was calculated on 500 hours per year. In addition, KSU is voluntarily taking limit on the hour of operation for the coal boiler to 5000 hours per year, in order to stay below major source the hazardous air pollutant, hydrogen chloride (HCl).

EMISSION AND OPERATING CAPS DESCRIPTION:

To preclude Section 112(j) of the Clean Air Act, source-wide emissions of a single hazardous air pollutant (HAP), shall not exceed 9.0 tons any consecutive twelve-month period.

OPERATIONAL FLEXIBILITY:

None